GENERALIZED SECTION OF THE ROCKS EXPOSED IN THE KENOVA QUADRANGLE.

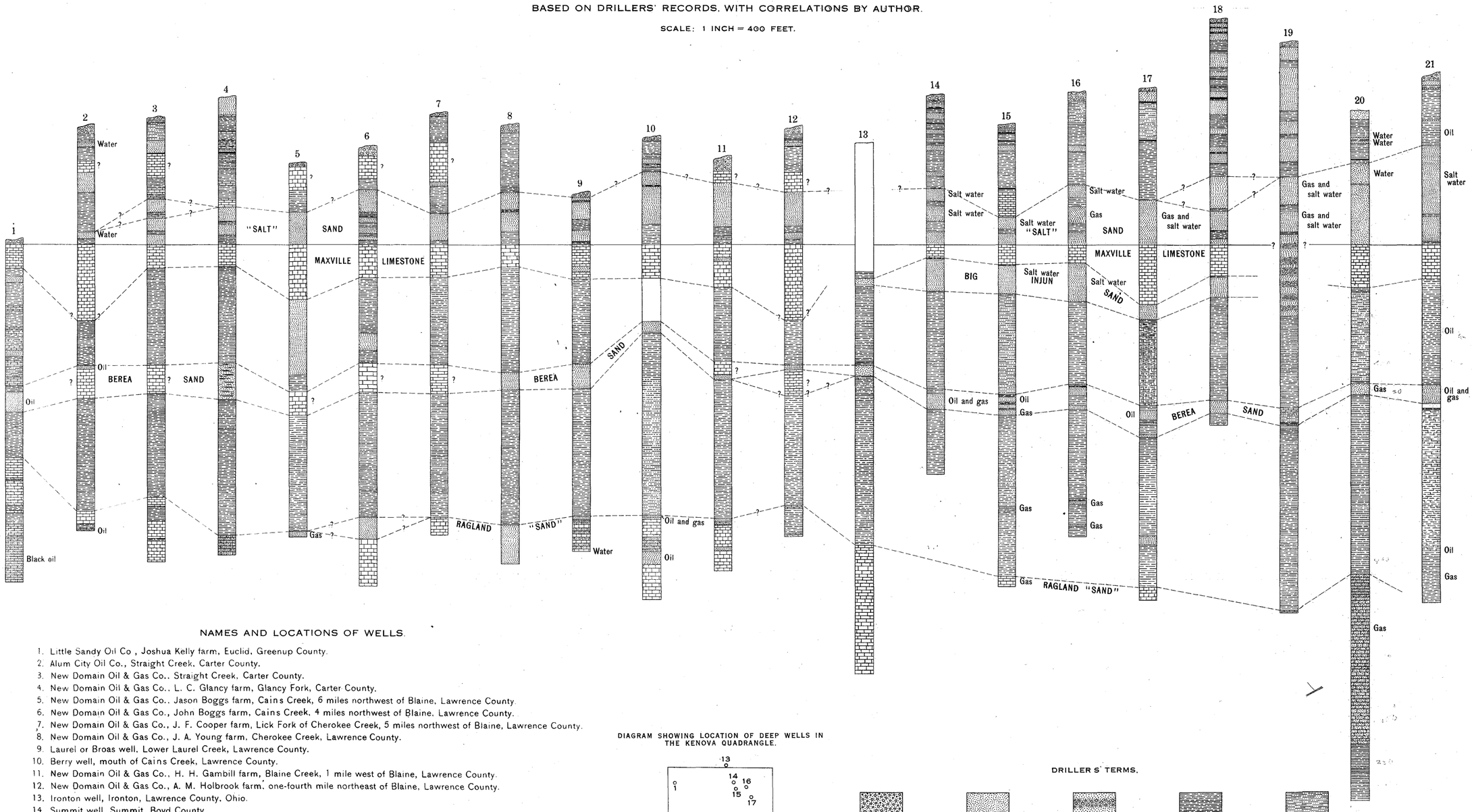
SCALE: 1 INCH = 200 FEET.

System.	Series.	Formation.	Symbol.	Section.	Thickness in Feet.	Minor Divisions.	Character of Minor Divisions.	General Character of Formation.
CARBONIFEROUS	PENNSYLVANIAN	Monongahela formation.	Cm		100+	Pittsburgh sandstone member. Pittsburgh coal.	Massive sandstone, 20 to 30 feet thick. Workable coal bed, averaging 3 feet in thickness.	The portion of the formation present in the quadrangle is prevailingly shale with scattered lenses of sandstone and a massive sandstone underlain by the Pittsburgh coal at its base.
		Conemaugh formation.	Ccm		400–600	Morgantown (?) sandstone member. Ames (?) limestone member. Buffalo sandstone member. Lower Cambridge limestone member. Brush Creek coal. Mahoning sandstone member.	Very massive in places, averaging about 50 feet in thickness. A siliceous, highly fossiliferous, limestone, important along Big Sandy River. Very massive in places, averaging 40 to 50 feet in thickness. Siliceous to argillaceous limestone, fossiliferous in places. Unimportant, mined locally. Massive sandstone, locally conglomeratic, having a maximum thickness of 100 feet.	Chiefly variegated shale with massive sandstones mainly in its lower part and thin limestones and thin coals.
		Allegheny formation.	Ca		180–200	Upper Freeport coal. Lower Freeport coal. Red kidney ore. Middle Kittanning coal. Yellow kidney ore. Lower Kittanning coal. Vanport limestone member. Brookville coal.	Locally important in the southeastern part. Average thickness 3 feet. Unimportant except locally in the northeastern part of the quadrangle. At present of no importance. The most important coal in the quadrangle. At present of no importance. Workable in northeastern part of quadrangle; 2 to 3 feet thick. Blue argillaceous limestone, associated with clay and iron ore. Locally very important, in places 5 feet in thickness.	Chiefly alternating shales and sandstones with beds of coal and refractory clay of present economic importance and iron ores formerly worked.
		Pottsville formation.	Cpv		400	Homewood sandstone member. Upper Mercer coal. Lower Mercer coal. Quakertown (?) coal. Barrett Creek or "Little Cannel" coal. Sharon (?) coal. Sharon (?) conglomerate member. Sciotoville fire clay.	Very massive coarse-grained sandstone, ranging from a few feet to nearly 100 feet in thickness. Important coal, worked along Levisa Fork and Stinson Creek. Important coal, worked along Levisa Fork and Stinson Creek. Workable in the northern part of the quadrangle. Important coal, worked near Torchlight and on Barret Creek in western part of quadrangle. Locally of importance. Massive conglomeratic sandstone, 40 to 50 feet thick, in places attaining 100 feet. Refractory fire clay along the western edge of the quadrangle.	Massive sandstones separated by shale beds with beds of coal and refractory clay of present economic importance, and iron ore not now worked. In the southern part of the quadrangle, where its entire thickness is not exposed, well records indicate that it thickens to over 600 feet.
	MISSISSIPPIAN	Maxville limestone.	Cmv		25			Blue argillaceous limestone. Well records indicate that it is much thicker under the southeastern part of the quadrangle.
		Logan formation.	Cl		100+			Alternating shales and sandstones.

SECTIONS OF DEEP WELLS IN THE KENOVA QUADRANGLE.

BASED ON DRILLERS' RECORDS, WITH CORRELATIONS BY AUTHOR.

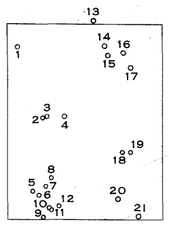
SCALE: 1 INCH = 400 FEET.



NAMES AND LOCATIONS OF WELLS.

1. Little Sandy Oil Co , Joshua Kelly farm, Euclid, Greenup County.
2. Alum City Oil Co., Straight Creek, Carter County.
3. New Domain Oil & Gas Co., Straight Creek, Carter County.
4. New Domain Oil & Gas Co., L. C. Glancy farm, Glancy Fork, Carter County.
5. New Domain Oil & Gas Co., Jason Boggs farm, Cains Creek, 6 miles northwest of Blaine, Lawrence County.
6. New Domain Oil & Gas Co., John Boggs farm, Cains Creek, 4 miles northwest of Blaine, Lawrence County.
7. New Domain Oil & Gas Co., J. F. Cooper farm, Lick Fork of Cherokee Creek, 5 miles northwest of Blaine, Lawrence County.
8. New Domain Oil & Gas Co., J. A. Young farm, Cherokee Creek, Lawrence County.
9. Laurel or Broas well, Lower Laurel Creek, Lawrence County.
10. Berry well, mouth of Cains Creek, Lawrence County.
11. New Domain Oil & Gas Co., H. H. Gambill farm, Blaine Creek, 1 mile west of Blaine, Lawrence County.
12. New Domain Oil & Gas Co., A. M. Holbrook farm, one-fourth mile northeast of Blaine, Lawrence County.
13. Ironton well, Ironton, Lawrence County, Ohio.
14. Summit well, Summit, Boyd County.
15. Clinton well, George farm, Shope Creek, Boyd County.
16. Catletts Creek, 2 miles west of Catlettsburg, Boyd County.
17. Richardson farm well, west bank of Big Sandy River, 1½ miles south of Catlettsburg, Boyd County (Longabaugh well).
18. Horseford Creek well, Lawrence County.
19. Blaine Creek well, mouth of Blaine Creek, Lawrence County.
20. Garred well, Garred farm, northwest of Gallup, Lawrence County.
21. Griffith Creek well, 7 miles southeast of Louisa, Lawrence County.

DIAGRAM SHOWING LOCATION OF DEEP WELLS IN THE KENOVA QUADRANGLE.



DRILLER'S TERMS.